

TRADEMARK ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | | | |
|---|--|-----------------------|-------------------|----------------------|------------------|------------------------|----------------------|-------------------|-----------------------|----------------------|---------|---------------------|--|
| NATURE OF CONVEYANCE: | Release of First Lien Trademark Security Agreement recorded at Reel/Fram 3705/0608 | | | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%;">Name</th> <th style="width: 30%;">Formerly</th> <th style="width: 20%;">Execution Date</th> <th style="width: 20%;">Entity Type</th> </tr> <tr> <td>Credit Suisse AG</td> <td>FORMERLY Credit Suisse</td> <td>04/27/2010</td> <td>Bank: SWITZERLAND</td> </tr> </table> | Name | Formerly | Execution Date | Entity Type | Credit Suisse AG | FORMERLY Credit Suisse | 04/27/2010 | Bank: SWITZERLAND | | | | | |
| Name | Formerly | Execution Date | Entity Type | | | | | | | | | | |
| Credit Suisse AG | FORMERLY Credit Suisse | 04/27/2010 | Bank: SWITZERLAND | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | |
| Name: | Global Geophysical Services, Inc. | | | | | | | | | | | | |
| Street Address: | 13927 South Gessner Road | | | | | | | | | | | | |
| City: | Missouri City | | | | | | | | | | | | |
| State/Country: | TEXAS | | | | | | | | | | | | |
| Postal Code: | 77489 | | | | | | | | | | | | |
| Entity Type: | CORPORATION: DELAWARE | | | | | | | | | | | | |
| PROPERTY NUMBERS Total: 3 | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">Property Type</th> <th style="width: 20%;">Number</th> <th style="width: 60%;">Word Mark</th> </tr> <tr> <td>Registration Number:</td> <td>3148160</td> <td>RG-3D RESERVOIR GRADE</td> </tr> <tr> <td>Registration Number:</td> <td>3170964</td> <td>RG 2D RESERVOIR GRADE</td> </tr> <tr> <td>Registration Number:</td> <td>3198605</td> <td>EXCITING THE PLANET</td> </tr> </table> | Property Type | Number | Word Mark | Registration Number: | 3148160 | RG-3D RESERVOIR GRADE | Registration Number: | 3170964 | RG 2D RESERVOIR GRADE | Registration Number: | 3198605 | EXCITING THE PLANET | |
| Property Type | Number | Word Mark | | | | | | | | | | | |
| Registration Number: | 3148160 | RG-3D RESERVOIR GRADE | | | | | | | | | | | |
| Registration Number: | 3170964 | RG 2D RESERVOIR GRADE | | | | | | | | | | | |
| Registration Number: | 3198605 | EXCITING THE PLANET | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | |
| Fax Number: | (713)222-3291 | | | | | | | | | | | | |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | | | | | | | | | | | | | |
| Phone: | 713.221.3306 | | | | | | | | | | | | |
| Email: | constance.rhebergen@bgllp.com | | | | | | | | | | | | |
| Correspondent Name: | Constance Gall Rhebergen | | | | | | | | | | | | |
| Address Line 1: | 711 Louisiana Street | | | | | | | | | | | | |
| Address Line 2: | Suite 2300 | | | | | | | | | | | | |
| Address Line 4: | Houston, TEXAS 77002 | | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 060877.091210 | | | | | | | | | | | | |
| NAME OF SUBMITTER: | Constance Gall Rhebergen | | | | | | | | | | | | |

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TRADEMARK
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|--|----------------------------|
| Signature: | /Constance Gall Rhebergen/ |
| Date: | 06/25/2010 |
| Total Attachments: 3 source=4 Release First Lien Global Geo#page1.tif source=4 Release First Lien Global Geo#page2.tif source=4 Release First Lien Global Geo#page3.tif | |

RELEASE OF FIRST LIEN SECURITY AGREEMENT IN TRADEMARKS

WHEREAS, by a certain Trademark Security Agreement dated as of January 16, 2008 (the “**Agreement**”) by Global Geophysical Services, Inc. (“**Assignor**”) to Credit Suisse AG (f/k/a Credit Suisse), as First Lien Collateral Agent (“**Assignee**”), which Agreement was recorded with the United States Patent and Trademark Office on January 28, 2008 on reel 003705 frame 0608, Assignor granted to Assignee as security interest in and lien on those trademarks and trademark applications owned by Assignor and set forth on Schedule A hereto;

WHEREAS, Assignee desires to release its security interest in and lien on the trademarks and trademark applications set forth on Schedule A hereto;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignee does hereby release its security interest in and lien on the trademarks and trademark applications set forth on Schedule A hereto and reassigns to the Assignor all right, title and interest of Assignee in and to such trademarks and trademark applications.

Dated: April 27, 2010

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**CREDIT SUISSE AG, CAYMAN
ISLANDS BRANCH,
as First Lien Collateral Agent**

By: 
Name: JUDITH E. SMITH
Title: MANAGING DIRECTOR

By: 
Name: ILYA IVASHKOV
Title: ASSOCIATE

Schedule A

GLOBAL GEOPHYSICAL SERVICES, INC.

U.S. TRADEMARK REGISTRATIONS

| <u>Owner</u> | <u>Type</u> | <u>Number</u> | <u>Registration Date</u> |
|-----------------------------------|------------------------------|---------------|--------------------------|
| Global Geophysical Services, Inc. | "RG-3D" Logo | 3,148,160 | Sept. 26, 2006 |
| Global Geophysical Services, Inc. | "RG-2D" Logo | 3,170,964 | Nov. 14, 2006 |
| Global Geophysical Services, Inc. | "Exciting the Planet" slogan | 3,198,605 | Jan 16, 2007 |

U.S. TRADEMARK APPLICATIONS

None

TRADEMARK LICENSES

| | | | |
|-------------------|-------------|-----------|------------------|
| Richard A. Degner | Global Logo | 3,040,806 | January 10, 2006 |
|-------------------|-------------|-----------|------------------|